

Preparation3 Quiz: Creative Thinking

This is an individual assignment. Once you submit this form, you will receive a copy of your responses to your email address.

You may use the following resources for this assignment:

- Preparation3 article: Creative thinking

You are allowed to use additional resources, but only for preparation and not while taking the quiz.

You are allowed to use generative AI, but only for preparation and not while taking the quiz.

* Indicates required question

1. Email *

2. Select all the correct sentences about creative ideation techniques. *

Check all that apply.

- ☐ Analogizing is a form of re-encoding.
- ☐ Challenging implicit assumptions is a form of constraint relaxation.
- ☐ Challenging implicit assumptions is a form of elaboration.
- ☐ Analogizing is a form of constraint relaxation.

3. Match each real-life product with its most appropriate description. *

Mark only one oval per row.

	Creative - both novel and useful	Novel, but not useful	Useful, but not novel
Apple's first iPhone (2007) https://en.wikipedia.org/wiki/IPhone_(1st_generation)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
IBM's Simon - the first commercially available smartphone (1994) https://en.wikipedia.org/wiki/IBM_Simon	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Samsung's first Galaxy smartphone (2009) https://en.wikipedia.org/wiki/Samsung_Galaxy_(original)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

4. Implicit assumptions about problem *

Select only the implicit assumption/s about the following problem:

Many drivers are distracted by notifications on their smartphone, a behavior that can lead to car accidents.

The list below may contain any number of correct answers, from none to all of them.

Check all that apply.

- ☐ Many drivers have notifications turned on their smartphone while driving.
- ☐ Many drivers have their smartphone facing them or next to them while driving.
- ☐ Touching and/or looking at a smartphone while driving is dangerous.
- ☐ Being distracted while driving can lead to car accidents.

5. Analogies to problems *

Select appropriate source problems for the following target problem:

Design a solution for round-the-clock delivery of aid and supplies to city dwellers affected by a severe earthquake.

The source problem is taken

from https://en.wikipedia.org/wiki/Bat#Anatomy_and_physiology

The list below may contain any number of correct or incorrect answers.

Check all that apply.

- ☐ Bat wings can change shape mid-flight to allow for sharp turns.
- ☐ Bats use echolocation with sonar to detect obstacles and find prey even in dark spaces.
- ☐ Bats can use their wings to wrap around their bodies for warmth.
- ☐ Bats can hang upside down with no special effort due to the clenched position of their feet also being their relaxed position.

6. If there was anything you were not sure about to do with this assignment, would like to leave a comment about the assignment, or have any other questions about this topic, please comment here.

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